

AN - 1998-229107 [20]

AP - RU19920005950 19921111

CPY - ALEK-I

DC - S02 V07

FS - EPI

IC - G01B9/021

IN - ALEKSANDROV S A; TANIN L V

MC - S02-A03B3 V07-M

PA - (ALEK-I) ALEKSANDROV S A

PN - RU2090838 C1 19970920 DW199820 G01B9/021 004pp

PR - RU19920005950 19921111

XIC - G01B-009/021

XP - N1998-181395

AB - RU2090838 Method is based on the tested surface being illuminated with collimated coherent radiation beams having different wavelengths, and recording  $m$  holograms using a reference beam. Additionally,  $m$  holograms are recorded, each using one of the additional reference beams which are spatially separated from each other and the reference beam.

- Restoration of  $2m$  holograms is carried out by the same reference beams, which are linearly polarised. the additional beams used above polarise orthogonally w.r.t. the first beam. When at least one of the additionally recorded holograms is restored one of the additional coherent radiation beams is used with a regulated phase shift.
- USE - Method is for contactless determination of relief of surface in test-metrology science, and for medical-biological objects.
- ADVANTAGE - Method improves resolution by recording additional information about surface relief.
- (Dwg.1/1)

IW - HOLOGRAM METHOD DETERMINE SURFACE RELIEF TEST PRODUCE ITEM FORMING INTERFERENCE PATTERN COHERE COLLIMATE BEAM WAVELENGTH

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NC - 001

OPD - 1992-11-11

ORD - 1997-09-20

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TI - Holographic method for determining surface relief e.g. for testing production items - by forming interference pattern using coherent collimated beams of different wavelengths